

```
In [2]: #My first program
        for i in range(10):
            print(i)
```

```
0
1
2
3
4
5
6
7
8
9
```

Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

```
In [5]: x=[]#creating empty list
        for i in range(2000, 3200):
            if (i%7==0) and (i%5!=0):#checking condition using & operator
                x.append(str(i))#appending the values which are didvisible by 7
                & not divisible by 5
        print(x)
```

```
['2002', '2009', '2016', '2023', '2037', '2044', '2051', '2058', '2072', '2079', '2086', '2093', '2107', '2114', '2121', '2128', '2142', '2149', '2156', '2163', '2177', '2184', '2191', '2198', '2212', '2219', '2226', '2233', '2247', '2254', '2261', '2268', '2282', '2289', '2296', '2303', '2317', '2324', '2331', '2338', '2352', '2359', '2366', '2373', '2387', '2394', '2401', '2408', '2422', '2429', '2436', '2443', '2457', '2464', '2471', '2478', '2492', '2499', '2506', '2513', '2527', '2534', '2541', '2548', '2562', '2569', '2576', '2583', '2597', '2604', '2611',
```

```
'2618', '2632', '2639', '2646', '2653', '2667', '2674', '2681', '2688',  
'2702', '2709', '2716', '2723', '2737', '2744', '2751', '2758', '2772',  
'2779', '2786', '2793', '2807', '2814', '2821', '2828', '2842', '2849',  
'2856', '2863', '2877', '2884', '2891', '2898', '2912', '2919', '2926',  
'2933', '2947', '2954', '2961', '2968', '2982', '2989', '2996', '3003',  
'3017', '3024', '3031', '3038', '3052', '3059', '3066', '3073', '3087',  
'3094', '3101', '3108', '3122', '3129', '3136', '3143', '3157', '3164',  
'3171', '3178', '3192', '3199']
```

Write a Python program to accept the user's first and last name and then getting them printed in the reverse order with a space between first name and last name

```
In [10]: first_name=input('Enter your first name:')#taking first name as input  
last_name=input('Enter your last name:')#taking second name as input  
print(last_name + ' ' + first_name)#concatenating two string
```

```
Enter your first name:kunal  
Enter your last name:jha  
jha kunal
```

Write a Python program to find the volume of a sphere with diameter 12 cm. Formula:  $V = \frac{4}{3} \pi r^3$

```
In [11]: import math#importing math library for PI  
d=12  
volume=(4/3)*math.pi*((d/2)**3)  
volume
```

```
Out[11]: 904.7786842338603
```

Write a program which accepts a sequence of comma-separated numbers from console and generate a list.

```
In [19]: numbers=input('Enter the comma separated numbers:')  
numbers.split()
```

Enter the comma separated numbers:2,3,4,5,6

Out[19]: ['2,3,4,5,6']

# Create the below pattern using nested for loop in Python. \* \* \* \* \*

```
In [7]: rows = int(input("Enter max no. of asterisk to be display on single line: "))

for i in range (0, rows):
    for j in range(0, i + 1):
        print("*", end=' ')
    print("\r")

for i in range (rows, 0, -1):
    for j in range(0, i -1):
        print("*", end=' ')
    print("\r")
```

Enter max no. of asterisk to be display on single line: 5

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

Write a Python program to reverse a word after accepting the input from the user

```
In [29]: str=input('enter a string: ')
print(str[::-1])
```

```
enter a string: AcadGild
dliGdacA
```

Write a Python Program to print the given string in the format specified in the sample output. WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all its citizens Sample Output: WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN, ! SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC and to secure to all its citizens

```
In [8]: print("WE, THE PEOPLE OF INDIA,\n\t having solemnly resolved to constitute India into a SOVEREIGN,\n\t\t SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC\n\t\t and to secure to allits citizens")
```

```
WE, THE PEOPLE OF INDIA,  
    having solemnly resolved to constitute India into a SOVEREIGN,  
        SOCIALIST, SECULAR, DEMOCRATIC REPUBLIC  
        and to secure to allits citizens
```